24/27/32/42-INCH WUXGA
PREMIUM TFT-LED MONITOR

USER MANUAL

Please read this manual thoroughly before use, and keep it handy for future reference.

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This Monitor was
Manufactured by ISO 9001
Certified Factory

Important Safety Instruction

1. Read these instructions.
2. Keep these Instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers,stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug.
   Apolarized plug has two blades with one wider than the other.
   Agrounding type plug has two blades and a third grounding prong.
   The wide blade or the third prong are provided for your safety.
   If the provided plug does not fit into your outlet, consult an electrician for replacement of the bsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachment/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

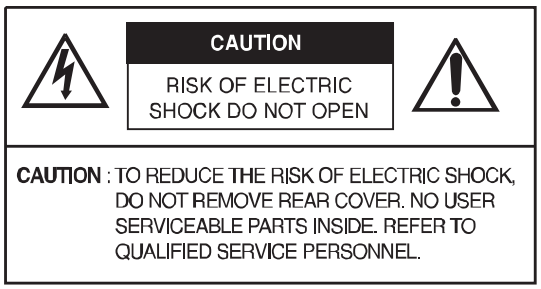
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus the apparatus has been exposed to rain or moisture does not operate normally or has been dropped.

SAFETY INSTRUCTION

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed no the apparatus.
- Minimum distances(e.g. 10cm) around the apparatus for sufficient ventilation.

“WARNING – To reduce the risk of fire or electric shock, do not expose the apparatus to rain or moisture.”

“The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.”


CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated : dangerous voltage with in the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

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CAUTIONS

CAUTION

The power supply cord is used as the main disconnect device, ensure that the socket-outlet is located/installed near the equipment and is easily accessible.

ATTENTION

Le cordon d`alimentation est utillsé comme interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et être facile d`accès

CAUTION TO SERVICE PERSONNEL

POWER SUPPLY CORD IS USED AS MAIN POWER DISCONNECT DEVICE IN THIS PRODUCT. UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE REMOVING THE BACK COVER AND SERVICING

EMISSION CHARACTERISTICS TESTED BY SEMKO

THIS PRODUCT HAS BEEN TESTED AND HAS SHOWN COMPLIANCE WITH THE NATIONAL SPECIFICATIONS SUCH AS SWEDISH MPR 1990.10.(MPR II)

▶ **NEVER REMOVE THE BACK COVER**

Removal of the back cover should be carried out only by qualified personnel.

▶ **DO NOT USE IN HOSTILE ENVIRONMENTS**

To prevent shock or fire hazard, do not expose the unit to rain or moisture.

This unit is designed to be used in the office or home. Do not subject the unit to vibrations, dust of corrosive gases.

▶ **KEEP IN A WELL VENTILATED PLACE**

Ventilation holes are provided on the cabinet to prevent the temperature from rising.

Do not cover the unit or place anything on the top of unit.

▶ **AVOID HEAT**

Avoid placing the unit in direct sunshine or near a heating appliance.

▶ **TO ELIMINATE EYE FATIGUE**

Do not use the unit against a bright back ground and where sunlight or other light sources will shine directly on the monitor.

▶ **BE CAREFUL OF HEAVY OBJECT**

Neither the monitor itself nor any other heavy object should rest on the power cord.

Damage to a power cord can cause fire or electrical shock.

FCC RF INTERFERENCE STATEMENT

NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technician for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

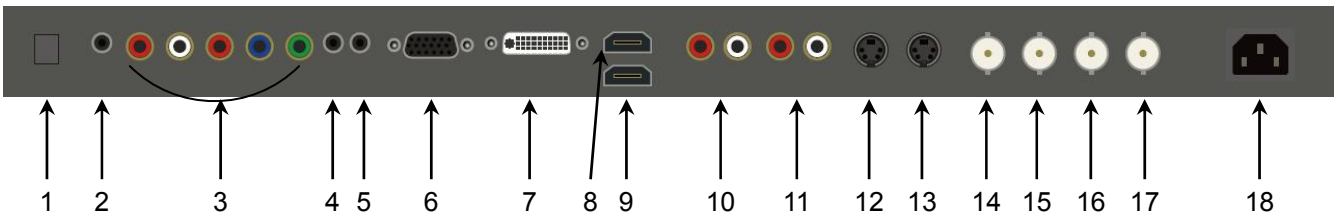
▶ DOC COMPLIANCE NOTICE

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.

CONNECTING WITH EXTERNAL EQUIPMENT

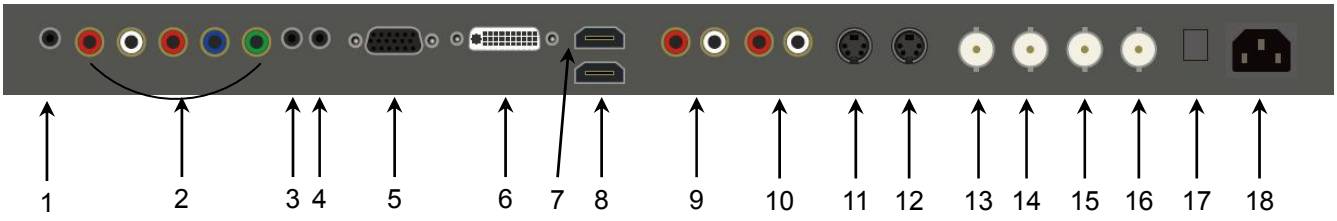
1. BACK PANEL CONTROL

1.1. 24 inch



1. DC12V OUT(CAMERA USE)
2. TRIGGER INPUT
3. COMPONENT AUDIO L/R IN & COMPONENT Y/Pb/Pr IN
4. AUDIO OUT (Speaker)
5. PC AUDIO IN
6. PC RGB IN
7. DVI IN
8. HDMI1 IN
9. HDMI2 IN
10. AV2 AUDIO R/L IN
11. AV1, S-VIDEO AUDIO R/L IN
12. S-VIDEO OUT
13. S-VIDEO IN
14. AV2 OUT
15. AV2 IN
16. AV1 OUT
17. AV1 IN
18. AC IN (POWER)

1.2. 27/32/42 inch



1. TRIGGER INPUT
2. COMPONENT AUDIO L/R IN & COMPONENT Y/Pb/Pr IN
3. AUDIO OUT (Speaker)
4. PC AUDIO IN
5. PC RGB IN
6. DVI IN
7. HDMI1 IN
8. HDMI2 IN
9. AV2 AUDIO R/L IN
10. AV1, S-VIDEO AUDIO R/L IN
11. S-VIDEO OUT
12. S-VIDEO IN
13. AV2 OUT
14. AV2 IN
15. AV1 OUT
16. AV1 IN
17. DC12V OUT(CAMERA USE)
18. AC IN (POWER)

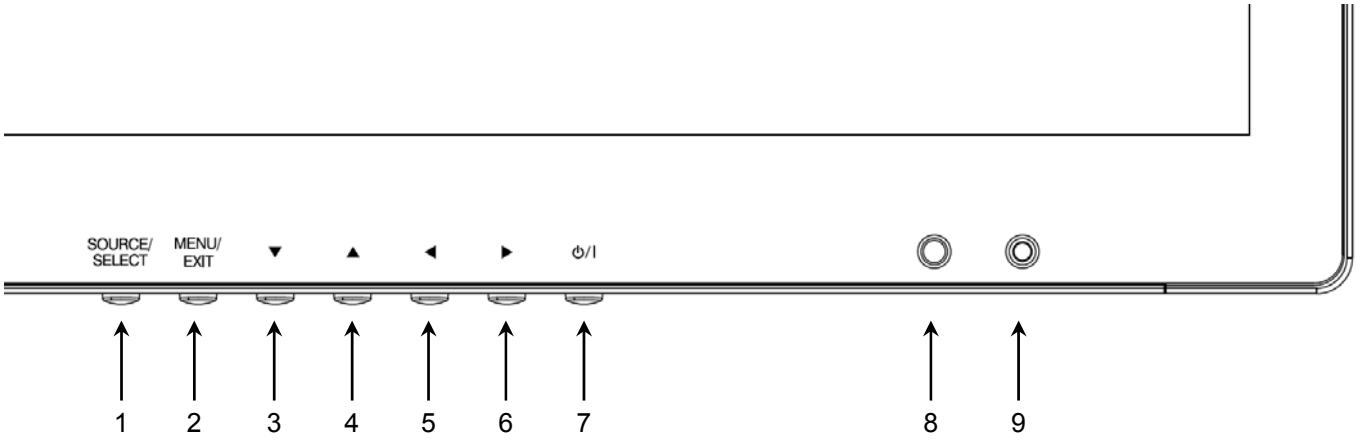
REMOTE FUNCTIONS

REMOTE CONTROLLER(Optional)

1. POWER( )
Turns the power ON or OFF. There will be a few seconds delay before the display appears.
2. SOURCE
Selects an input source.
3. AUTO
Auto geometry adjustment in the RGB PC source.
4. HOLD
Stops the Trigger & Auto switching functions.
5. MUTE
Mutes the sound.
6. MENU
Activates and exits the On Screen Display.
7. EXIT
Exits the On Screen Display.
8. VOL(◀ & ▶)
Increases or decreases the level of audio volume.
9. UP/DOWN
Moves upwards or downwards in the OSD menu.
10. ENTER
Enters an OSD submenu or accepts your selection.
11. INFO
Displays the information about input source.
12. STILL
Pauses the picture.
13. PIP (Picture In Picture)
Activates the PIP mode.
14. P.INPUT
Changes the source of sub-picture in the PIP mode.
15. P.POS
Changes the position of sub-picture in the PIP mode.
16. P.SIZE
Changes the sizes of sub and main pictures in the PIP mode.
17. SWAP
Alternates between sub and main pictures in the PIP mode.
18. ARC (Aspect Ratio Control)
Selects a screen ratio.
19. APC (Auto Picture Control)
Selects a picture mode.
20. ACC (Auto Color Control)
Selects a color mode.
21. S.SET
Selects the source of sound between main and sub pictures in the PIP mode.
22. PC
Selects a PC mode(PC, DVI & HDMI).
23. AV
Selects an AV mode(AV1, AV2 & S-Video).
24. COMP
Selects the Component mode.

CONTROLS AND FUNCTIONS

FRONT KEY CONTROL



1. SOURCE/SELECT

Select PC or video.

Select On Screen Display menu.

2. MENU/EXIT

Activate and exit the On Screen Display.

3 / 4. ▼ / ▲

These buttons allow user to enter the sub-menu of the activated function.

The up(▲) button is HOLD function and stop the Trigger & Auto switching functions.

5 / 6. ◀ / ▶

Adjust the volume and menu settings.

7. POWER ON/OFF(⏻/ I)

Turns the power ON or OFF. There will be a few seconds delay before the display appears.

8. POWER LED

The power LED lights with green when the power is turned ON.

The power is turned off by pressing the power switch again and the power LED goes Red.

9. IR Sensor

Remote controller sensor.

CONTROLS AND FUNCTIONS

OSD MENU DESCRIPTION

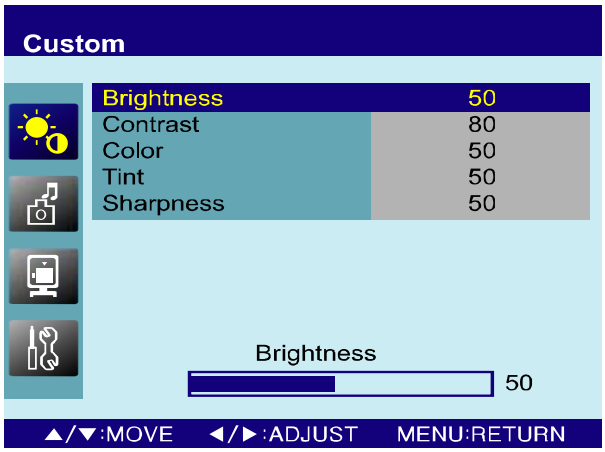
All picture, sound settings and setup for the monitor can be adjusted in the OSD menu.

(**O**n **S**creen **D**isplay)

To adjust the OSD screen:

1. Press the **Menu** button to enter the OSD menu.
2. Press the ▲/▼ buttons to select the desired option. The selected option is highlighted.
3. Press the ▶ button to enter the submenu for adjusting items.
4. Change the value you wish to adjust by using the ◀/▶ buttons.
5. Press the ◀ button to exit the submenu for adjusting items.
6. Press the **Menu** button to exit the OSD menu.

A. Custom

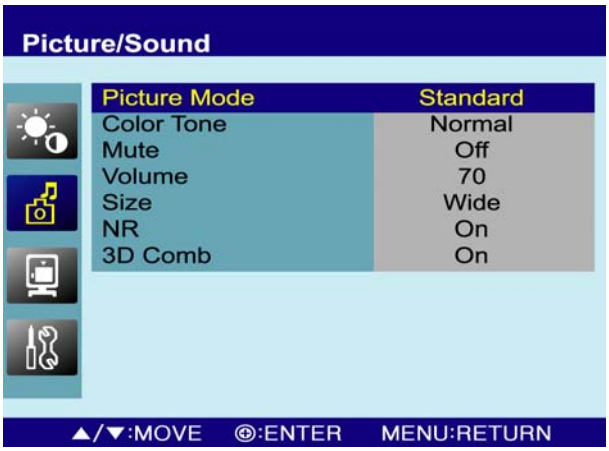


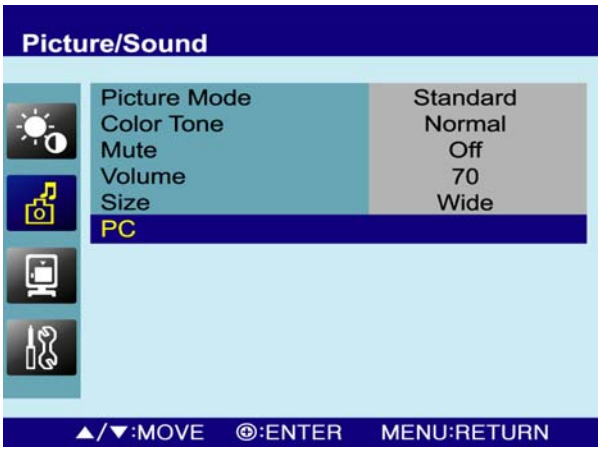
Option	Function	Value
Brightness	Adjusts brightness of the screen.	0 ~ 100
Contrast	Adjusts intensity of the image.	0 ~ 100
Color [1)]	Adjusts color of the picture.	0 ~ 100
Tint [1) 2)]	Adjusts tint of the picture.	0 ~ 100
Sharpness [1)]	Adjusts sharpness of the picture.	0 ~ 100

1) Unavailable in RGB PC, DVI, HDMI1 and HDMI2.

2) Unavailable in Component mode and PAL system.

B. Picture/Sound





Option	Function	Value
Picture Mode	Sets picture mode.	See table below
Color Tone	Sets color tone.	See table below
Mute	Mutes speaker sound.	Off or On
Volume	Adjust the level of audio volume.	0 ~ 100
Size	Display picture size.	See table below
NR [1)]	Reduces noise of the picture.	On or Off
3D Comb [2)]	Activates the 3D comb filter.	On or Off
PC [3)]	See table below.	

1) Unavailable in RGB PC, DVI, HDMI1 and HDMI2.

2) Unavailable in S-Video, RGB PC, DVI, HDMI1, HDMI2 and Component.

3) Only available in RGB PC.

Picture Mode

Custom	Applies user selected values.(Brightness, Contrast, Color, Tint and Sharpness)
Dynamic	Provides enhanced contrast and sharpness.
Standard	Provides standard contrast and sharpness.
Movie	Is recommended for viewing film-based content.
Mild	Reduces contras and sharpness.

CONTROLS AND FUNCTIONS

Color Tone

Cool	Gives the white color a bluish tint.
Normal	Gives the white color a neutral tint.
Warm	Gives the white color a reddish tint.
User	To manually adjust the color tones(Red, Green, and Blue).

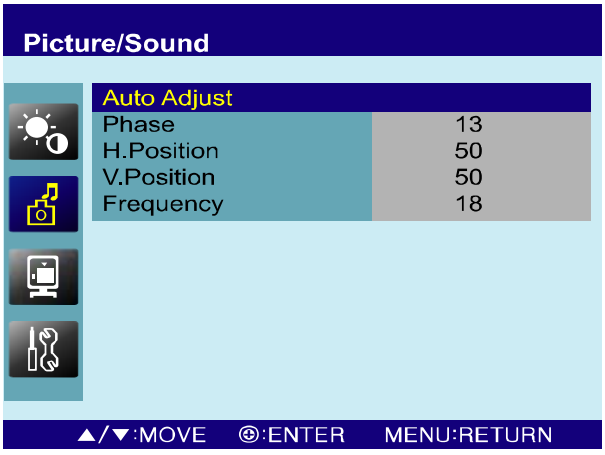
Size

4:3	Sets the image size to 4:3
Panorama [1)]	Sets the image to panorama
Zoom1 [1)]	Expands the image size about two times to upward and downward
Zoom2 [1)]	Expands the image size about one and half times to upward and downward
Wide	Sets the image size to wide
Under [2)]	Adjusts the image size to display resolution without overscan
1:1 [1)]	Adjusts the image size to input resolution with overscan

1) Unavailable in RGB PC, DVI, HDMI1, HDMI2 and Component.

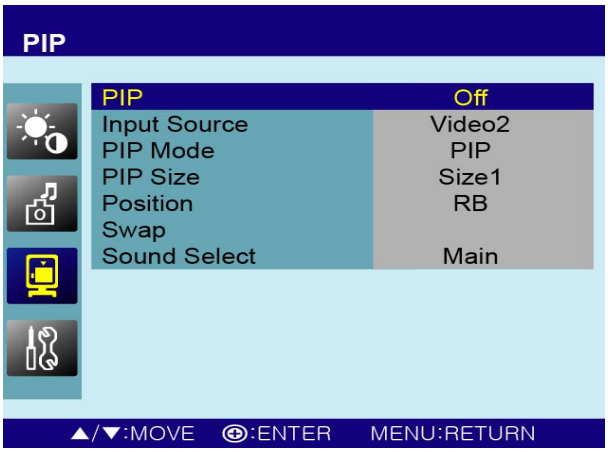
2) Unavailable in RGB PC.

PC



Option	Function	Value
Auto Adjust	Auto geometry adjustment.	
Phase	Adjusts the number of horizontal picture elements.	0 ~ 100
H-Position	Adjusts the horizontally picture position.	0 ~ 100
V-Position	Adjusts the vertically picture position.	0 ~ 100
Frequency	Adjusts the vertical noise of screen image.	0 ~ 100

C. PIP

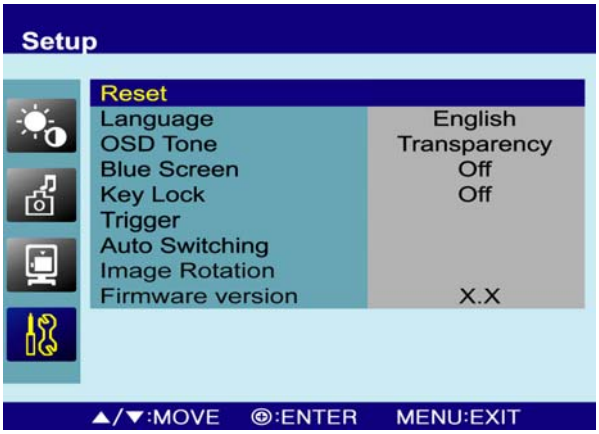


Option	Function	Value
PIP	Activates the PIP feature.	Off or On
Input Source	Selects the input source for the PIP area.	See table below
PIP Mode	Enables 3 screen size.4:3 side by corner, 4:3 side by 4: 3, and full screen side by side.	PIP, PBP1 or PBP2
PIP Size	Selects the size of PIP screen.	Size1, Size2 or Size3
Position	Selects the position of PIP screen. **R**ight of **B**ottom, **L**eft of **B**ottom, **L**eft of **T**op and **R**ight of **T**op.	RB, LB, LT or RT
Swap	Alternates between the main and sub picture	
Sound Select	Selects the sound source from either the Main or PIP	Main or Sub

Input Source

	Main	Sub
Available combination	AV1, AV2 or S-Video	AV1, AV2 or S-Video
	AV1, AV2 or S-Video	RGB PC, DVI, HDMI1, HDMI2 or Component
	RGB PC, DVI, HDMI1, HDMI2 or Component	AV1, AV2 or S-Video
Unavailable combination	RGB PC, DVI, HDMI1, HDMI2 or Component	RGB PC, DVI, HDMI1, HDMI2 or Component

D. Setup



Option	Function	Value
Reset	Resets the monitor settings to their factory default.	
Language	Sets the language of the OSD menu.	English, French, Deutsch, Italian, Spanish, Portuguese or Nederland
OSD Tone	Changes background of monitor menus. (e.g. input source & information)	Transparency or On
Blue Screen	Displays a blue screen if the monitor receives no signal.	Off or On
Key Lock[1)]	Locks all buttons of the monitor. **Note**: Use remote controller to unlock.	Off or On
Trigger	See table below	
Auto Switching	See table below	
Image Rotation[2)]	Activates the Image Rotation function.	Off or On

1) How to unlock

① On the front key: Press the MENU and ▲ button at the same time over 3 seconds.

② On the Remote Controller: The Remote Controller operates well because the Key Lock function is only allowed for the front key of this product.

2) The displayed image is slightly moved to prevent image persistence when the Image Rotation function is On. The user is able to adjust the image rotation time from 0~10Min. in the sub-menu of image rotation.

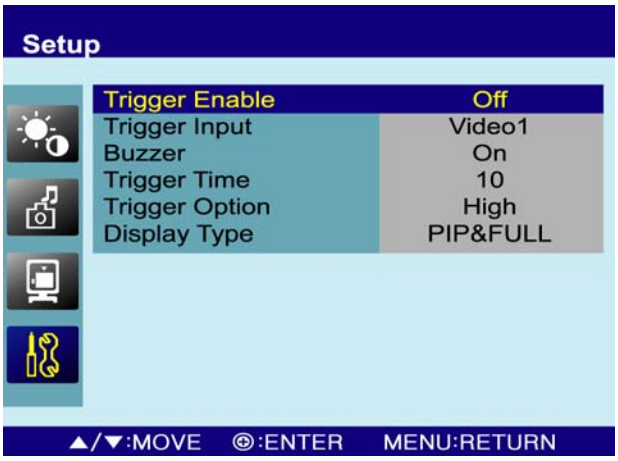
※ Image persistence

When an LCD panel is continuously displaying the same image(graphic) for a long period of time, a trace of the image can remain visibly. Image persistence is not a product defect, and all LCD products are subject to image persistence.

CONTROLS AND FUNCTIONS

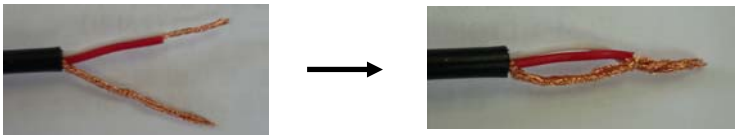
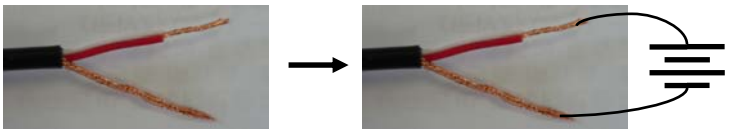
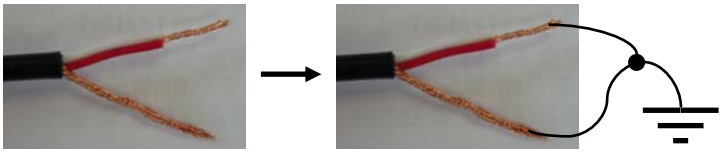
※ **NOTICE**: When watching moving images on a computer or a DVR through this monitor using a PC-RGB, DVI or HDMI input, you can see blurred images on the edge of icons and pop-up windows but, this is not a defect. The blur may appear on the fixed images such as another icon and pop-up window because the 120Hz feature is focused on fast moving images to enhance the quality of moving image.

Motion Detection (Built-in PIR sensor; Passive Infra-Red)

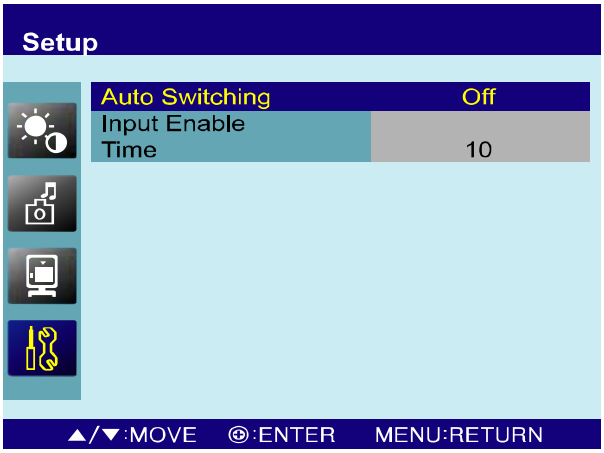


Option	Function	Value
Trigger Enable	Activates the trigger feature.	Off or On.
Trigger Input	Selects the input source for the Trigger.	AV1, AV2, S-Video, RGB PC, DVI, HDMI1, HDMI2 and Component
Buzzer	Activates an audible signal when the monitor receives an trigger signal.	On or Off.
Trigger Time	Selects the amount of time, in seconds, that the monitor displays the trigger Input image.	3 ~ 100.
Trigger Option	Selects the type of physical trigger input.	See table below.
Display Type	Selects the mode in which the monitor displays the Trigger Input. The monitor takes one of the following actions: - PIP & FULL: Displays the Trigger Input in the PIP of the current video input source. **Note**: The main video source must support the Trigger Input source as a PIP option. See section "**Input Source**" in "**C. PIP**". - FULL: Switches the display to show the Trigger Input in the full screen.	PIP & FULL or FULL.

CONTROLS AND FUNCTIONS

N/C(**N**ormally **C**losed): The Trigger function is activated when the trigger cable is opened.	
N/O(**N**ormally **O**pened): The Trigger function is activated when the trigger cable is closed.	
High: The Trigger function is activated when the trigger signal is DC 2~5[V].	
Low: The Trigger function is activated when the trigger signal is DC 0~0.6[V]. **Note**: In this case, trigger port has high status electrically, so the trigger cable has to have ground(or earth) status to be activated.	

Auto Switching

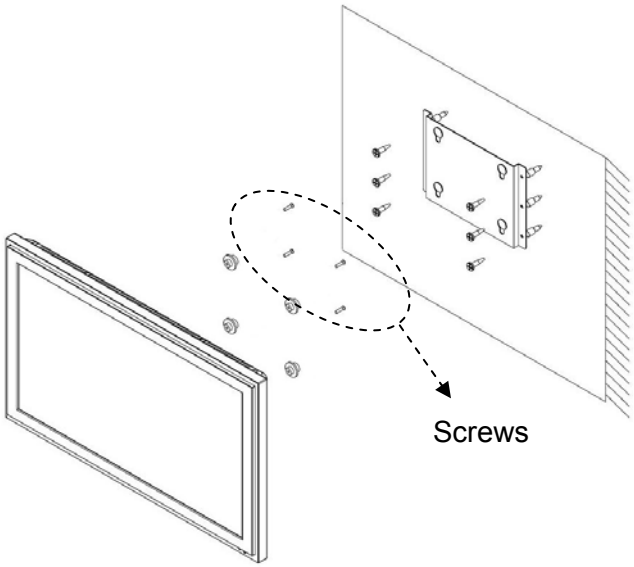


Option	Function	Value
Auto Switching	Activates the Auto Switching feature.	Off or On
Input Enable	Opens another menu and you can select the input sources to include in the Auto Switching cycle.	AV1, AV2, S-Video, RGB PC, DVI, HDM1, HDMI2 and Component
Time	Selects the amount of time, in seconds, that the monitor displays each selected input source.	3 ~ 100

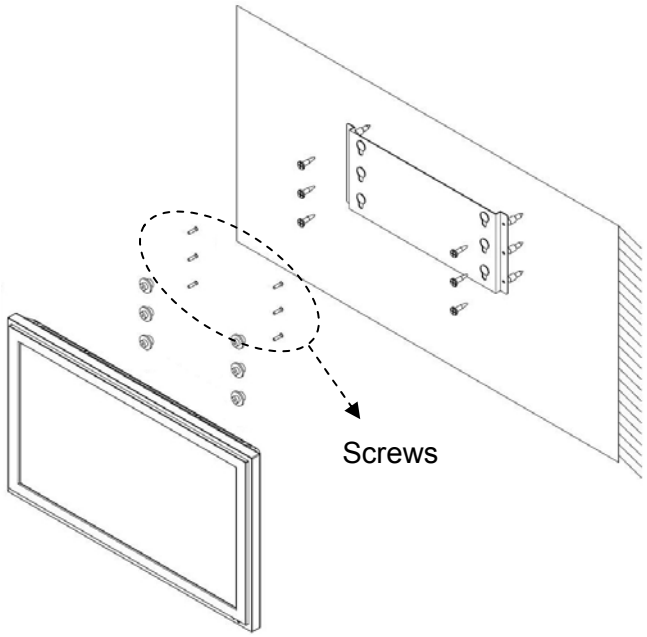
MOUNTING GUIDE

Wall mounting (Optional)

The LCD monitors are suitable for VESA standard wall mount (not included in the delivery).



< 27/32 inch >



< 42 inch >

1. 27/32-inch: VESA 200mm x 200mm
2. 42-inch: VESA 600mm x 100mm x 100mm.

※ Attention!

- 27/32inch : You must use four M6x8 screws to assemble this monitor and the wall mount bracket.
- 42-inch : You must use six M8x8 screws to assemble this monitor and the wall mount bracket.

※ WARNING!

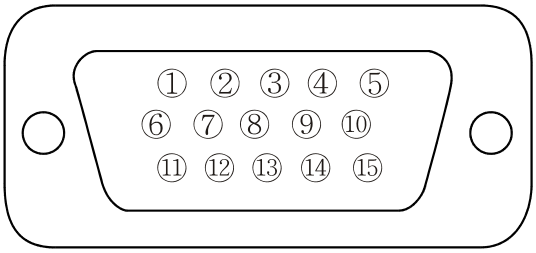
If user use longer than M6x8(27/32inch), M8x8(42inch) it may cause the damage on the unit.
Please follow instructed bolt size & length.

D-SUB CONNECTOR PIN ASSIGNMENTS

▶ PIN ASSIGNMENTS

Pin 1	RED VIDEO	9	
2	GREEN VIDEO	10	SIGNAL CABLE DETECT
3	BLUE VIDEO	11	GROUND
4	GROUND	12	SDA(for DDC)
5	GROUND	13	H-SYNC.(or H+V SYNC.)
6	RED GROUND	14	V-SYNC.
7	GREEN GROUND	15	SCL(for DDC)
8	BLUE GROUND		

D-SUB



▶ ACCESSORIES

1. Power cord
2. User's manual
3. Cable (PC or HDMI)
4. Trigger cable (Option)
5. Stereo cable (Option)
6. Remote controller (Option)
7. Batteries (Option)
8. Wall mount (Option)

POWER MANAGEMENT

POWER CONSUMPTION

MODE	POWER CONSUMPTION			
	24”	**27”**	**32”**	**42”**
ON	<43W	<48W	< 55W	< 67W
POWER OFF	< 1W			

LED INDICATOR

The power management feature of the monitor is comprised of four stages: On(Green) and Unsupported mode(Green).

MODE	LED COLOR	MONITOR OPERATION
ON	GREEN	Normal Operation
UNSUPPORTES MODE	GREEN	Normal operation but the on screen Display will show error massage
POWER OFF	RED	Not Operation

SPECIFICATIONS

		24"	27"
LCD-Type	Type	24″ Diagonal AM-TFT (Active-Matrix)	27″ Diagonal AM-TFT (Active-Matrix)
	Pixel pitch(mm)	0.27675(H) x 0.27675(V)	0.3112(H) x 0.3112(V)
	BRIGHTNESS	250cd/m² (Typical)	300cd/m² (Typical)
	CONTRAST RATIO	5000:1(Typical)	3000:1(Typical)
	VIEWING ANGLE	178°/178°(H/V)	
	RESPONSE TIME	12msec (Gray to Gray)	
RESOLUTION (H x V)		1920X1080 @60Hz	
FREQUENCY		HORIZONTAL: 31~80KHz, VERTICAL: 56~75Hz	
INPUT SIGNAL		VIDEO(2ch input 1.0Vp-p, 75Ω terminated, loop-through out)	
		S-VIDEO(1ch input (Y/C), loop-through out)	
		COMPONENT (Y,Pb,Pr, Sound L/R)	
		DVI (Digital Video Interface)	
		HDMI1, HDMI2 (High Definition Multimedia Interface)	
		PC RGB	
		AV(composite) Sound in/Out	
		PC Stereo Sound	
		Audio Out	
		DC12V OUT (CAMERA USE)	
ACTIVE DISPLAY AREA (W x H)		531.36 X 298.89 mm	597.6 X 336.15 mm
PACKING DIMENSIONS (W x H x D)		715mm X 575mm X 205mm (26.77” X 20.67” X 6.77”)	720mm X 563mm X 180mm (28.35” X 22.17” X 7.09”)
WEIGHT	Net	6.04 kg (13.32 lbs)	10.5 kg (23.15 lbs)
	Gross	8.54 kg (18.83 lbs)	14.6 kg (32.19 lbs)
ELECTRICAL RATINGS		100-240V~, 50/60Hz (Auto Switching)	

▶▶ **NOTE :** Technical specifications are subject to change without notice.

SPECIFICATIONS

		32"	42"
LCD-Type	Type	32″ Diagonal AM-TFT (Active-Matrix)	42″ Diagonal AM-TFT (Active-Matrix)
	Pixel pitch(mm)	0.36375(H) x 0.36375(V)	0.4845(H) x 0.4845(V)
	BRIGHTNESS	350cd/m² (Typical)	
	CONTRAST RATIO	3000:1(Typical)	
	VIEWING ANGLE	178°/178°(H/V)	
	RESPONSE TIME	6.5msec (Gray to Gray)	
RESOLUTION (H x V)		1920X1080 @60Hz	
FREQUENCY		HORIZONTAL: 31~80KHz, VERTICAL: 56~75Hz	
INPUT SIGNAL		VIDEO(2ch input 1.0Vp-p, 75Ω terminated, loop-through out)	
		S-VIDEO(1ch input (Y/C), loop-through out)	
		COMPONENT (Y,Pb,Pr, Sound L/R)	
		DVI (Digital Video Interface)	
		HDMI1, HDMI2 (High Definition Multimedia Interface)	
		PC RGB	
		AV(composite) Sound in/Out	
		PC Stereo Sound	
		Audio Out	
		DC12V OUT (CAMERA USE)	
ACTIVE DISPLAY AREA (W x H)		698.4 X 392.85 mm	930.24 X 523.26 mm
PACKING DIMENSIONS (W x H x D)		790mm x 580mm x 220mm (31.10” x 22.83” x 8.66”)	1294 x 900 x 320 mm (50.16” x 34.65” x 11.81”)
WEIGHT	Net	13 kg (28.66 lbs)	19.4 kg (42.77 lbs)
	Gross	17.3 kg (38.14 lbs)	27 kg (59.52 lbs)
ELECTRICAL RATINGS		100-240V~, 50/60Hz (Auto Switching)	

▶▶ **NOTE :** Technical specifications are subject to change without notice.

TROUBLESHOOTING GUIDE

TROUBLE	TROUBLESHOOTING TIP
No image on display screen	1. Check that power cord of the Monitor have been connected securely into wall outlet or grounded extension cable or strip. 2. Power switch should be in the ON position and LED is lit. 3. Check that the Brightness and/or the Contrast adjustments of the Display have not been turned down to minimum levels.
"NO SIGNAL" message on screen	1. The signal cable should be completely connected to the video card/computer. 2. The video card should be completely seated in its slot and the computer is switched ON.
Display image is not centered, too small or too large in PC mode	Push the down key in front side or Auto key in remote controller.
Vertical or Horizontal noise is present in the picture	Adjust Clock and Phase in the OSD.

WEEE Symbols

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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P/N : L39ME0359 Rev.0